

UNIDYNE™ TG-5601

Water and Oil Repellent

Characteristics

Imparts excellent water and oil repellency to all types of fabric substrates.

Low temperature curing

Enhanced environmental performance.

Performance is durable through extended home laundering.

Unidyne™ is unsurpassed in its ability to resist water and oils while maintaining the original appearance and feel of your product. Designed for application to virtually any natural or synthetic substrate, TG-5601 imparts water and oil repellency with excellent wash durability.

TG-5601 is environmentally friendly. It is built on C6 technology, contains low VOC's, and no APEOs (alkylphenol ethoxylates). This product, though typically applied topically, can also be foam or spray applied.

TG-5601 and all *Unidyne™* products are stable and compatible with common textile auxiliaries.

Properties*	Value
Appearance	Off white or pale yellow emulsion
Ionic Character	Cationic
pH	2.0 - 5.0 @ 25°C
Specific Gravity	1.07 - 1.17 @ 25°C
Solids content	29.0 – 31.0%
Solubility	Readily miscible in cold water
Shipping & Storage	Keep from freezing

*Typical properties are not suitable for specification purposes.

TG-5601 should be stored at temperatures between -5°C and 30°C (23°F and 86°F).

Application Guide

Fabric Type	WPU%	Chemical	Conc.(g/L)	Dry/Cure Conditions
Cotton Twill	75-90	TG-5601	60-80	Dry: 100-120°C for 1-2 min Cure: 160-180°C for 1-3 min
		MDI Type BI	5-10	
Polyester	75-85	TG-5601	60-80	Dry and Cure: 150-160°C for 0.5-3 min
		MIDI Type BI	5-10	

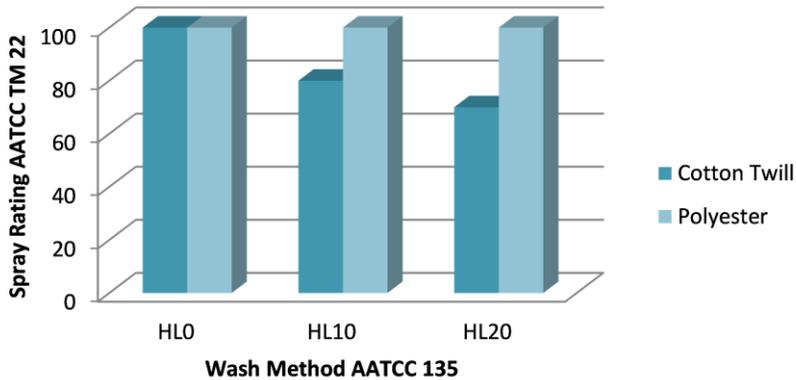
Note: To obtain maximum oil and water repellency, maintain a bath pH of 4 – 5. If pH is above 5.0, adjust pH with acetic acid.

When a wetting agent such as isopropyl alcohol or isobutyl alcohol is used, it must be thoroughly dissolved and diluted before TG-5601 is added.

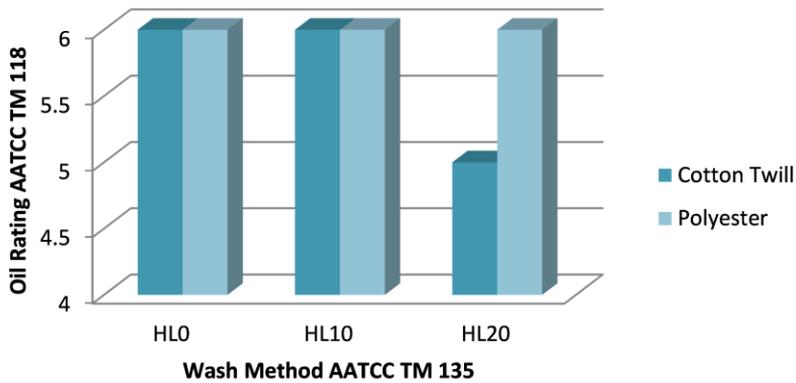
Dry/Cure conditions are based on a lab setting.

Performance Guide

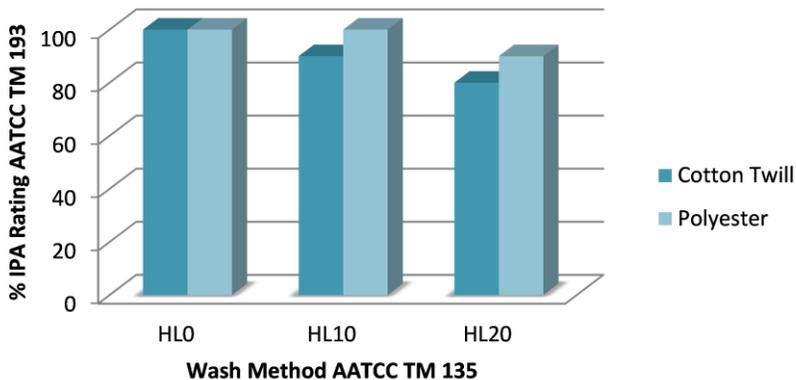
Water Repellency



Oil Repellency



IPA Repellency



Safety Precautions

Reference the Safety Data Sheet for details regarding the safe use and disposal of this product.

Technical Support

Technical support requests we make available the resources of our technical service team to assist with manufacturing problems, formulation development, product application, and quality control. With technical service centers in the US, China, Japan, Taiwan, Korea, and Europe, Daikin personnel are essentially available around the clock.

Quality

Unidyne™ is an example of Daikin America's commitment to Total Quality Management. Our advanced technologies and computer controlled systems produce products with absolute consistency, ensuring reproducible quality.

Perfect Chemistry

Our manufacturing, R&D, sales and marketing teams are linked by a common pursuit: To better serve our customers. We strive to be proactive and immediate in our response to customer needs.